**Frontend Assignment**

**Part 1: Web Designing Part**

**Web Designing**

**MODULE: 7 JQuery Basic, Effects & Advanced**

* **What is jQuery?**

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

* **How to Apply CSS Using JQuery?**

We can use jquery’s .css() method to apply CSS style on the given webpage.

*Syntax :*

*$(selector).css(property, value)*

*Or*

*$(selector).css({ property: value, property: value, … })*

* **How to Add Class and Remove Class in Jquery?**

The [addClass()](https://www.geeksforgeeks.org/jquery-addclass-with-examples/) or[removeClass()](https://www.geeksforgeeks.org/jquery-removeclass-with-examples/) methods are used to add the CSS classes when there is a need to add to our webpage when there is some event listener or to create some kind of effect.

In this article, let us see how can we add a CSS class or remove a CSS class in jQuery.

*Syntax:*

*Adding a class:*

*$('selector').addClass(class\_name);*

*Removing a class:*

*$('selector').removeClass(class\_name);*

* **JQuery Animation?**

The jQuery animate() method is used to create custom animations.

*Syntax:*

*$(selector).animate({params},speed,callback);*

The required params parameter defines the CSS properties to be animated.

* **How to create slider with animation?**

jQuery UI consists of GUI widgets, visual effects, and themes implemented using jQuery, CSS, and HTML. jQuery UI is great for building UI interfaces for the webpages. jQueryUI provides us a slider control through the slider widget. Slider helps us to get a certain value using a given range. In this article, we will see how to animate a slider. The animate option when set to true will create an animation effect when you directly click at any point on the slider’s axis

***Syntax:***

*$(".selector").slider(*

*{ animate: value }*

*);*

**Parameters:** This option accepts three parameters as discussed below:

**boolean:** If set to true, the slider will be animated. By default, the value is false

**string:** The string value used to set the speed of the slider cursor. The available values are slow, normal, fast.

**number:** The duration of the animation in milliseconds.